Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL YEAR | ENGINE FAMILY | DISPLACEMENT (liters) | FUEL TYPE | USEFUL LIFE (hours) |
|---------------|---|----------------------------------|-------------------|------------------------|
| 2003 | 3X9XL0505ACC | 8.3 | Diesel | 8000 |
| SPECIAL | FEATURES & EMISSION | CONTROL SYSTEMS | TYPICAL EQUIPMENT | APPLICATION |
| Direct Dies | sel Injection, Turbocharg Powertrain Control I | er, Charge Air Cooler, Module | Tractor | |

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| RATED | EMISSION | | | E | EXHAUST (g/kw-l | 1୮) | | OI | PACITY (% | 6) |
|----------------|----------------------|------|-----|-----|-----------------|-----|------|-------|-----------|------|
| POWER CLASS | STANDARD CATEGORY | | HC | NOx | NMHC+NOx | со | PM | ACCEL | LUG | PEAK |
| 225 < KW < 450 | Tier 2 | STD | N/A | N/A | 6.4 | 3.5 | 0.20 | 20 | 15 | 50 |
| | | FEL | N/A | N/A | N/A | N/A | 0.17 | N/A | N/A | N/A |
| | | CERT | | | 5.5 | 0.9 | 0.13 | 6 | 1 | 14 |

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Rophael Surrowith

Executed at El Monte, California on this _____2714 ___ day of November 2002.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form ATTAGI HEAT PS (68)

U-R-011-0573

Manufacturer: CNH Engine Corporation

Engine category: Nonroad over 50 HP

EPA Engine Famiy. 3X9XL0505ACC

Mfr Family Name: E413

Process Code: Running Change

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| 8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930 | PGM, TC, CAC PGM, TC, CAC | PCM, TC, CAC PCM, TC, CAC |
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| 7.Fuel Rate: nm/stroke@peak torque | | |
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| 6.Torque @ RPM (SEA Gross) | 1050@140C 1050@140C | 1030@1400 1000@1400 |
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| uef R) @ p lesel | 121.9 121.9 | 99.7 104.9 |
| 5.Fuel R hr) @ p r diesel | 2 2 | 99.7 104. |
| 5.Fuel Rate: bs/hr) @ peak (for diesels on | 121 | 99.7 104. |
| 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) | 121 | 99.7 104. |
| _ | 121 121 | 99.7 104. |
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| K H - | 121 121 | 99.7 |
| K H - | 121 121 | 99.7 104. |
| ate: peak HP only) | 4 | 4 99.7 1 104. |
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| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| ate: peak HP only) | 4 | 290@1800 164 93.7 290@1800 141 104. |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 164 164 | 164 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
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| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 164 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 340@2200 164 340@2200 164 | 1 290@1800 164 1 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 4 6TAA-8304 340@2200 164 6TAA-8304 340@2200 164 | 6TAA-83b4 290@1800 164 6TAA-83b4 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 4 6TAA-8304 340@2200 164 6TAA-8304 340@2200 164 | 6TAA-83b4 290@1800 164 6TAA-83b4 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 4 6TAA-8304 340@2200 164 6TAA-8304 340@2200 164 | 6TAA-83b4 290@1800 164 6TAA-83b4 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 4 6TAA-8304 340@2200 164 6TAA-8304 340@2200 164 | 6TAA-83b4 290@1800 164 6TAA-83b4 290@1800 141 |
| 4.Fuel Rate: 3.BHP@RPM mn/stroke @ peak HP (SAE Gross) (for diesel only) | 4 6TAA-8304 340@2200 164 6TAA-8304 340@2200 164 | 6TAA-83b4 290@1800 164 6TAA-83b4 290@1800 141 |
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